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HITACHI
Hitachi, Ltd. Tokyo Japan

ALL TRANSISTOR
STEREO TABLE RADIO
MODEL KS-2300
SERVICE MANUAL

No. 409 1971

SPECIFICATIONS

CIRCUIT SYSTEM····· FM/AM All-transistor superheterodyne with FM multiplex stereo adaptor

TUNING RANGE····· FM: 88~108MHz
AM: 530~1,605KHz

INTERMEDIATE FREQUENCY··FM: 10.7MHz
AM: 455KHz

TRANSISTORS

TR101	2SC535	FM RF Amp.
TR102	2SC535	FM Conv.
TR103	2SC535	FM Osc.
TR151	2SC460	AM Conv.
TR201	2SC460	FM IF Amp. & AM IF Amp.
TR202	2SC460	FM IF Amp. & AM IF Amp.
TR203	2SC460	FM IF Amp.
TR301	2SC458	19KHz Amp.
TR302	2SC458	38KHz Amp.
TR303	2SC458	DC Amp.
TR401A	2SC458	Pre Amp.
TR401B	2SC458	
TR501A	2SC458	AF Amp.
TR501B	2SC458	
TR502A	2SA673	AF Amp.
TR502B	2SA673	
TR503A	2SA700	Power Amp.
TR503B	2SA700	
TR504A	2SC1162	
TR504B	2SC1162	

DIODES

D101	1S85	AFC
D201	1N60	Limiter
D202	1N60	Limiter
D203	1N60	AGC
D204	1N34A	AM Det.
D205	1N60	FM Ratio Det.
D206	1N60	
D207	1N60	Rect. for tuning meter
D208	1N34A	
D209	HV-80	Limiter
D301	1N34A	Doubler
D302	1N34A	
D303	1N60	Switching
D304	1N60	
D305	1N60	
D306	1N60	
D501A	1S2076	Temp. Comp.
D501B	1S2076	
D502A	1S2076	
D502B	1S2076	
D601	VO6A	Rectifier
D602	VO6A	
D603	VO6A	
D604	VO6A	
D605	AWO1-13	Volt. Stab.

AUDIO OUTPUT····· 6W×2 (EIA Music power, 5% THD)

POWER SUPPLY····· AC: 120V, 60Hz

LOUDSPEAKER·····6½" PM×2

ANTENNA····· AM: Ferrite-core antenna
FM: Line cord antenna
External antenna terminals

SENSITIVITY·····	max.	practical
	FM:	7μV/m 9μV/m
	AM:	100μV/m 300μV/m

TERMINALS····· ◦ Stereo headphone jack
◦ Speaker jack
◦ Rec. out jack
◦ Tape in jack

DIMENSIONS····· 4 7/16"(H)×16½"(W)×11 5/16"(D)
(11.2×41.9×30cm)
SPEAKER BOX
10¾"(H)×8 5/16"(W)×5 5/16"(D)
(27.3×21×15cm)

WEIGHT····· 9 lbs. 11 oz (4.4kg)
SPEAKER BOX
3 lbs. 5 oz (1.5kg)×2

CONTROLS

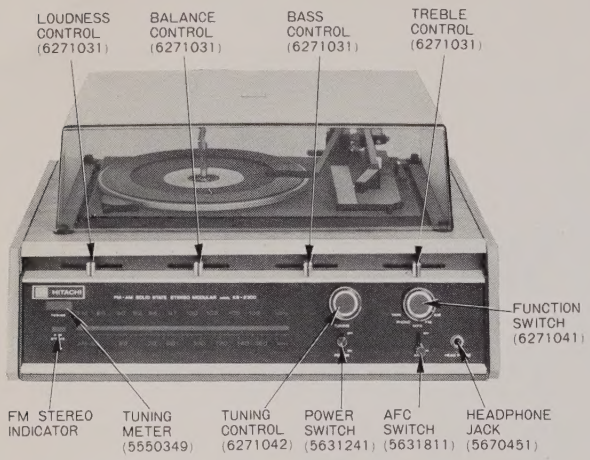


Fig. 1

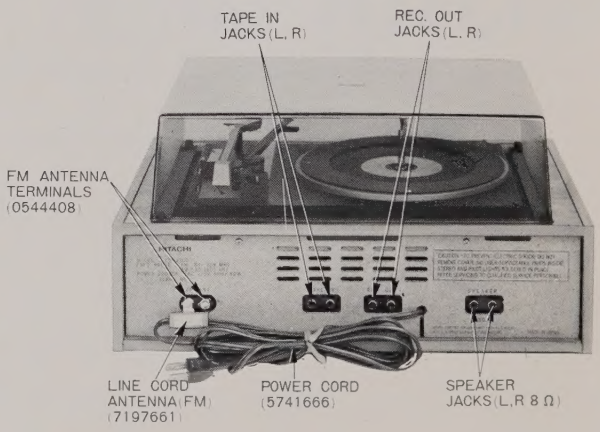

TAPE IN JACKS (L, R)
REC. OUT JACKS (L, R)
FM ANTENNA TERMINALS (0544408)
LINE CORD ANTENNA (FM) (7197661)
POWER CORD (5741666)
SPEAKER JACKS (L, R 8 Ω)

Fig. 2

BLOCK DIAGRAM

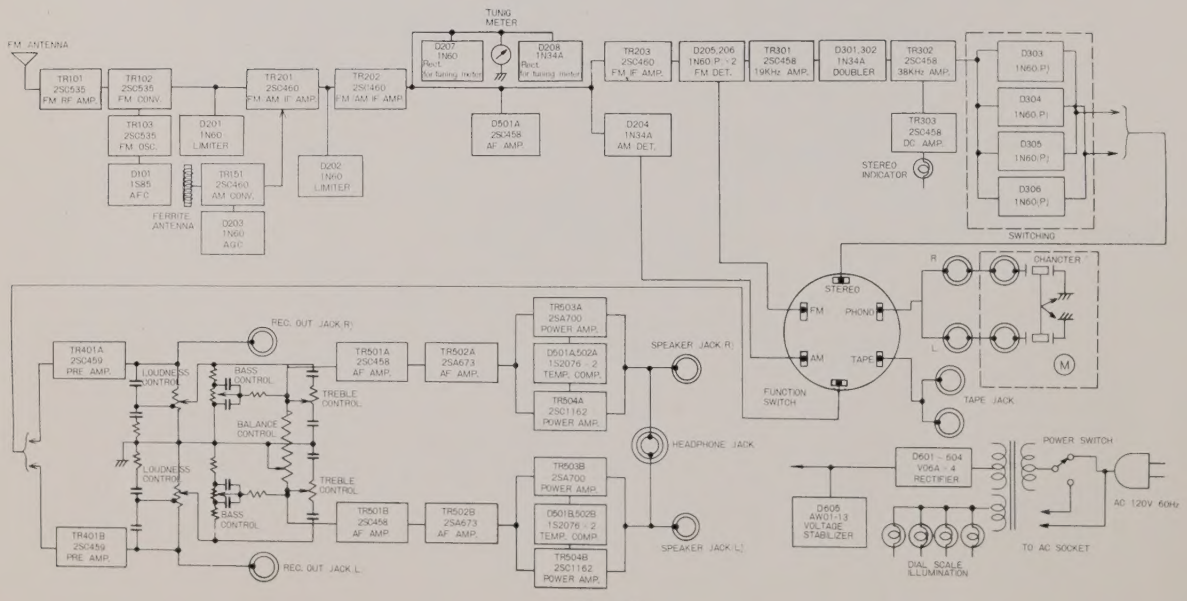


Fig. 3

DISASSEMBLY

1. **Removal of back cover**

Remove two screws holding back cover shown in Fig. 4.

Fig. 4

2. **Removal of upper case**

Remove four screws holding upper case and open the upper case shown in Fig. 5 and 6.

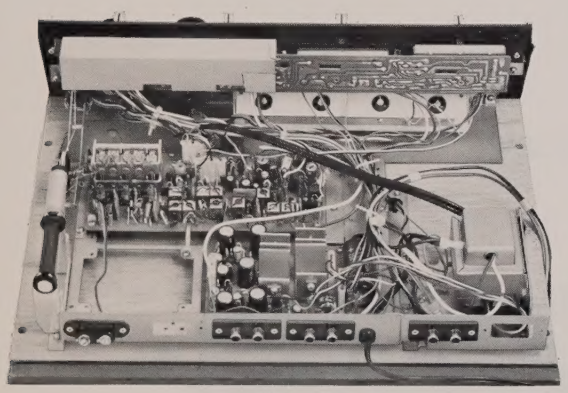


Fig. 6

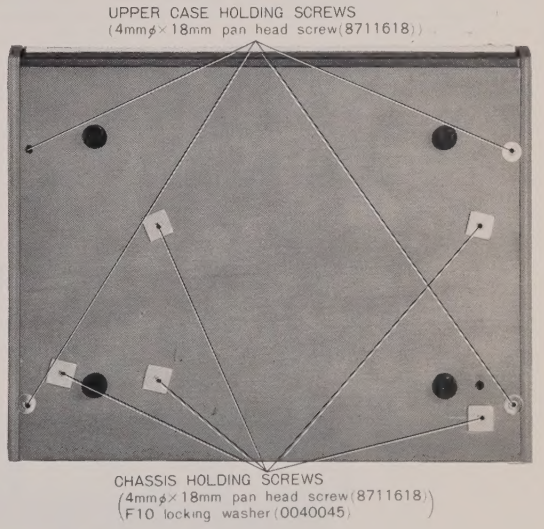


Fig. 5

3. **Removal of circuit board**

Remove nine screws holding circuit board shown in Fig. 7.

Remove seven screws holding tone circuit board shown in Fig. 8.

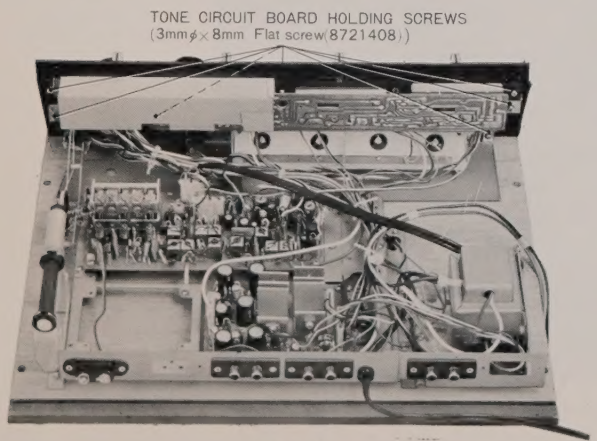


Fig. 8

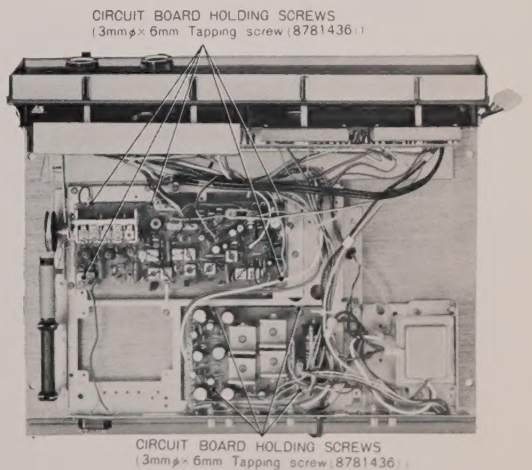


Fig. 7

DIAL CORD STRINGING

After taking out the chassis, move the dial pointer to the low frequency by turning knob referring to Fig. 9.

1) Loop the dial cord according to each arrow's direction as shown in Fig. 9.
2) After setting the dial pointer to panched point on the rail, fix it to the dial cord.

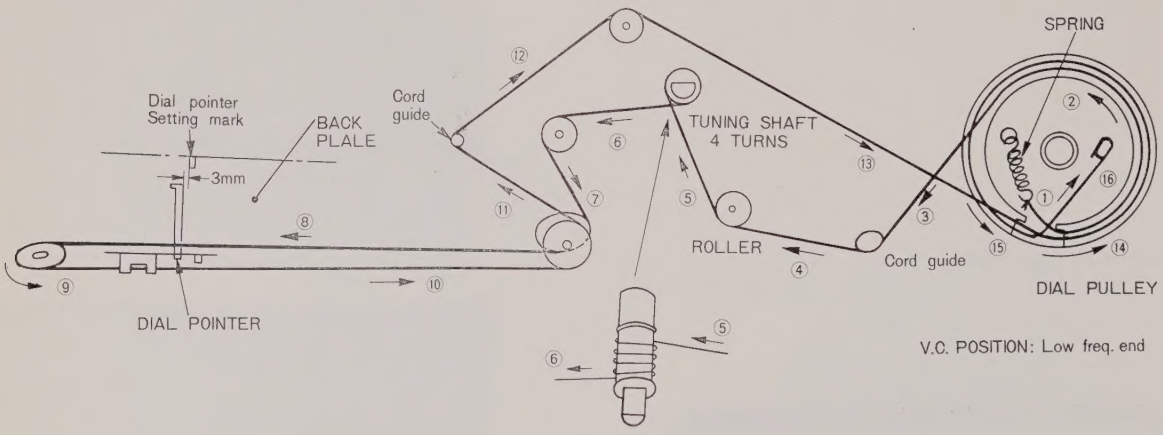


Fig. 9

INTERNAL VIEW

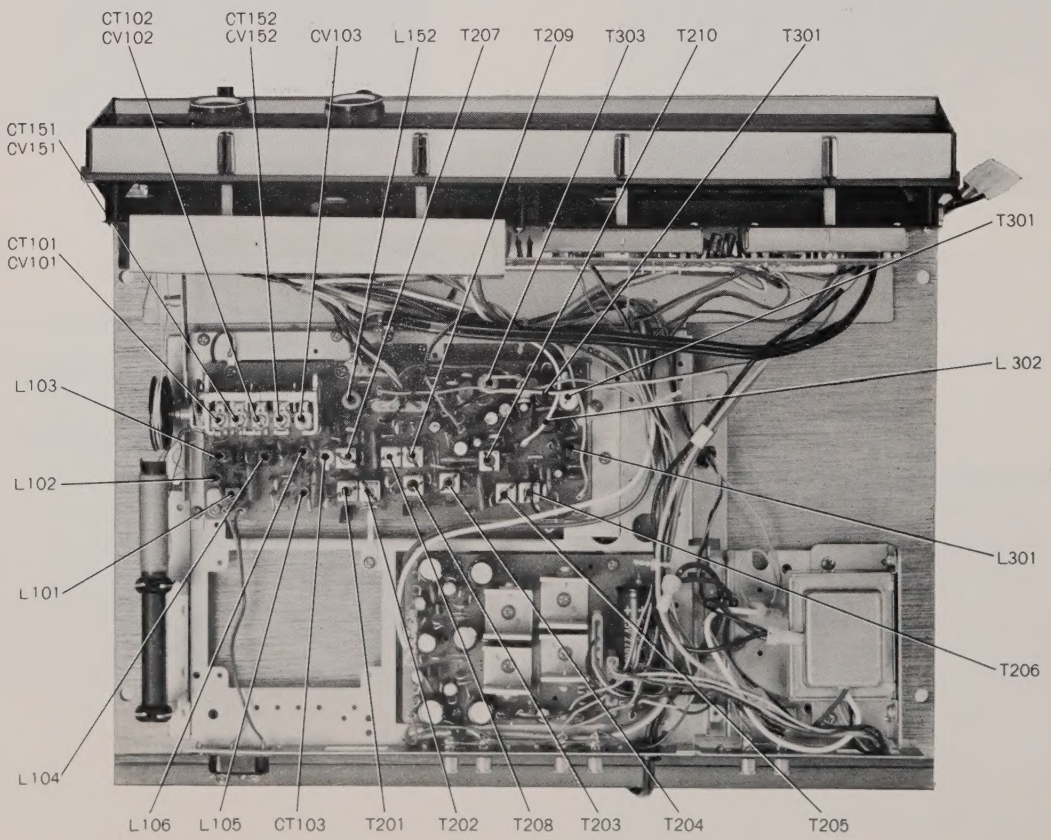


Fig. 10

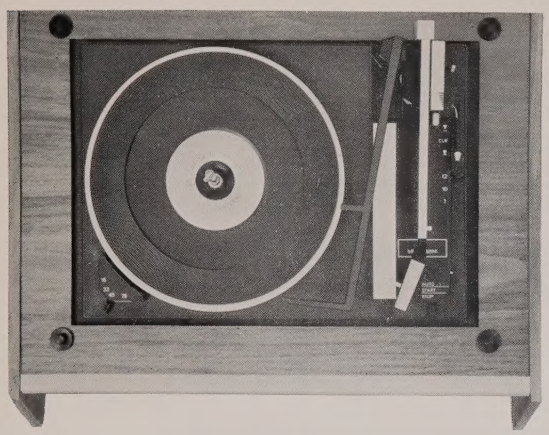


Fig. 11

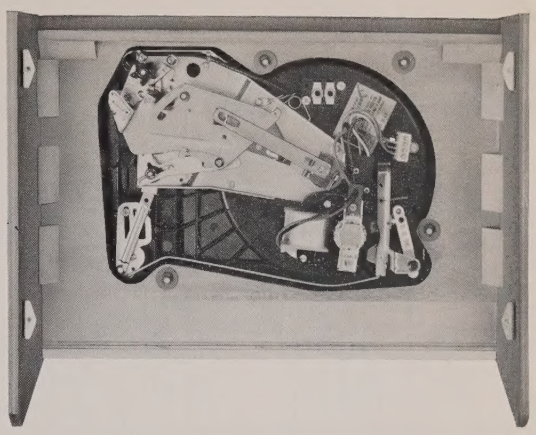
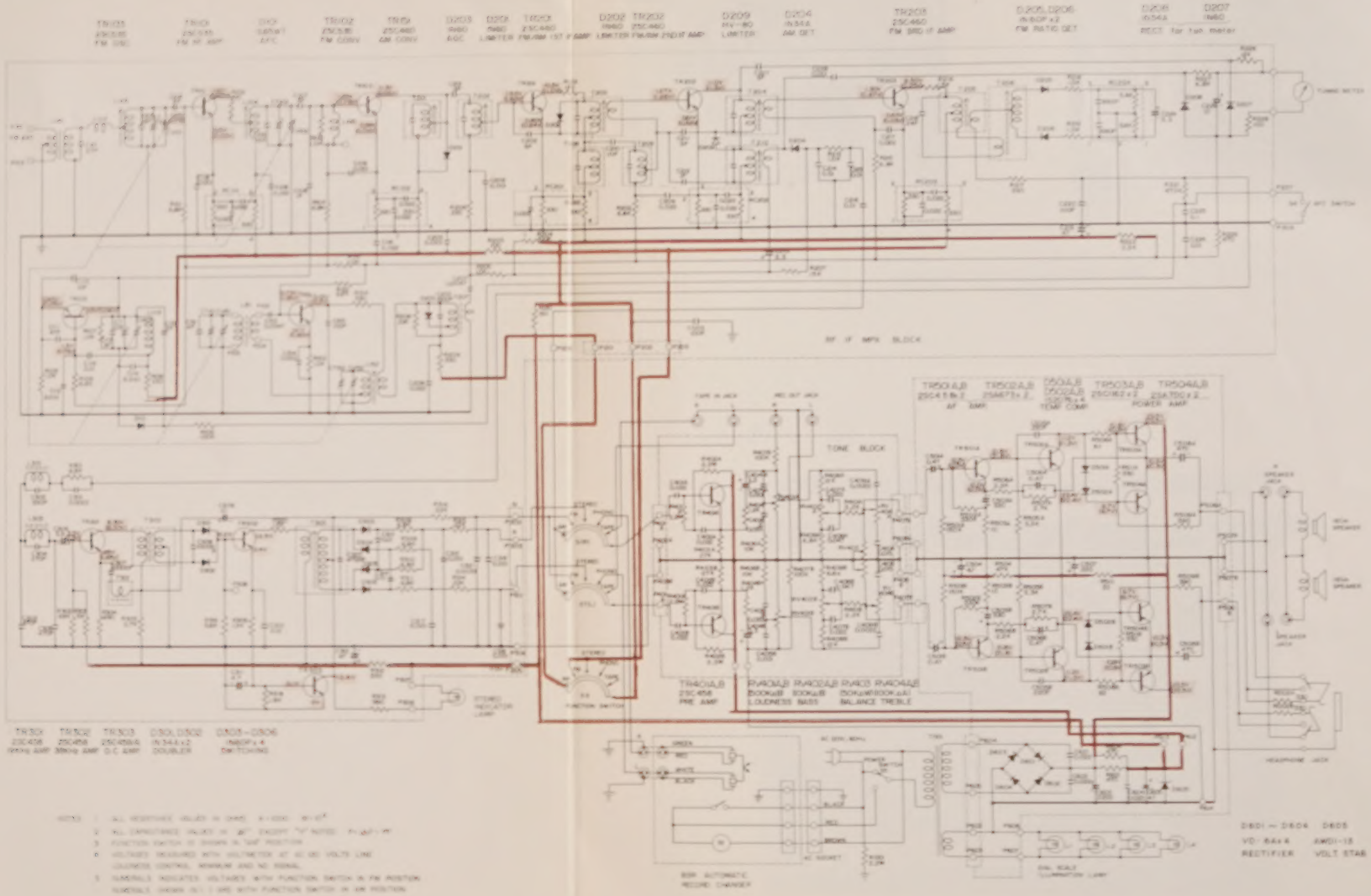


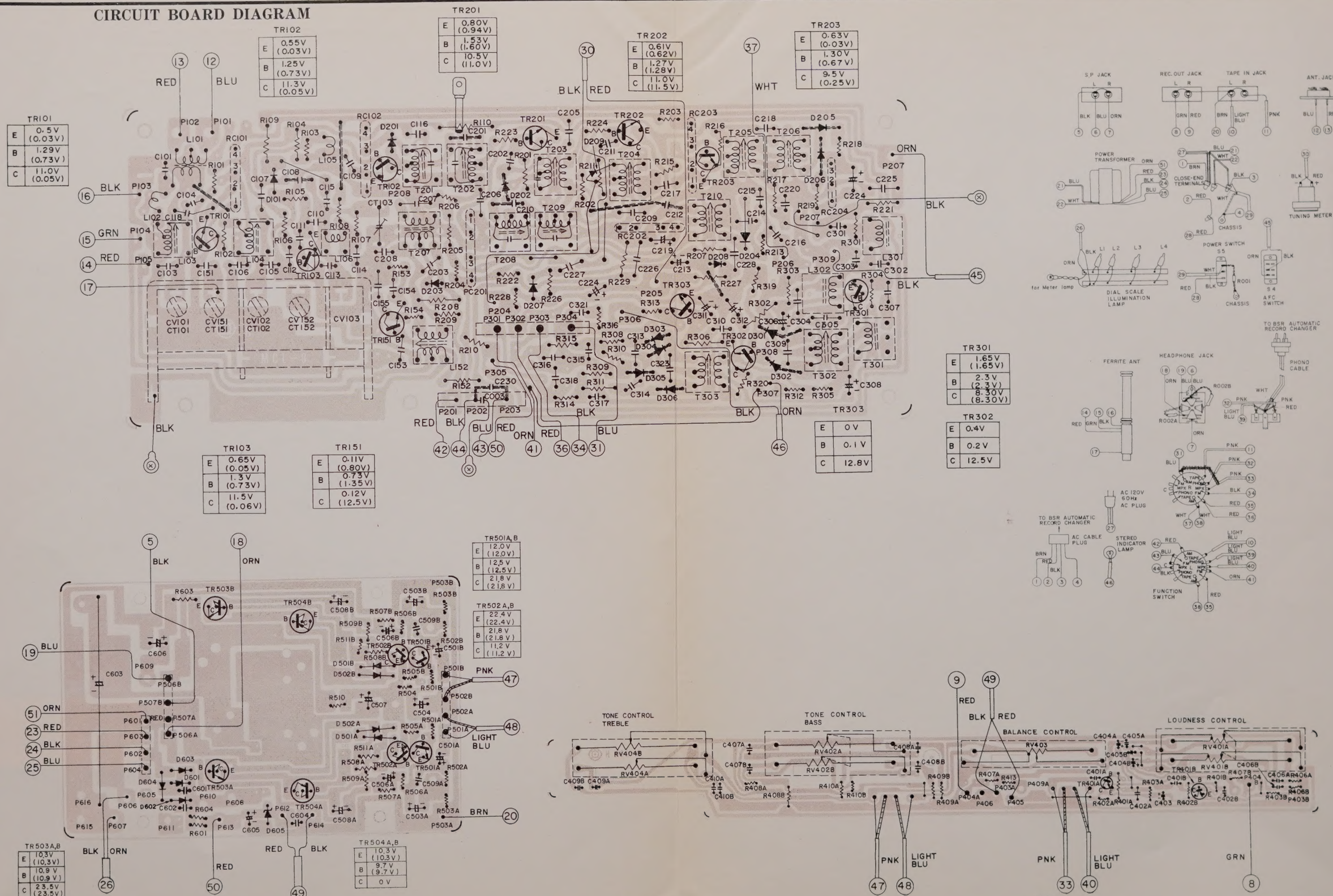
Fig. 12

BSR AUTOMATIC RECORD CHANGER

SCHEMATIC DIAGRAM



CIRCUIT BOARD DIAGRAM



Symbol No.	Stock No.	Description
	6125412	Front case assembly
	8781438	Tapping screw-3mm⌀×8mm (7req'd) for chassis mounting
	6190523	Rear cover assembly
	6190522	Rear cover assembly
	8785412	Tapping screw-3mm⌀×12mm (2 req'd) for rear cover mounting
		for Chassis assembly
	8781436	Tapping screw-3mm⌀×6mm (9 req'd) for P.C.B mounting
	7506325	Tuning shaft assembly
	7215251	Antenna supporter
	8781438	Tapping screw-3mm⌀×8mm (2 req'd) for antenna supporter mounting
	5760342	Lamp
	7621462	Lamp holder
	5550349	Tuning meter
	7663223	Rubber bushing
	5741321	Phono cable
	5741042	AC cable
	0638351	Wedge
	5670521	2P pin jack
	7774008	Blind rivet-3⌀
	5680612	Audio terminal plate
	7774002	Blind rivet-2.4⌀
	6316231	Spring
	6410731	Pulley
	5610421	Rotary switch for Function
	5680601	Extension paper for cord
	0544408	Lug terminal
	5741666	Power cord
	7197661	Cord holder
	0043791	Cord cover
	0043793	Bushing
	8711606	Pan head screw-4mm⌀×6mm
	8813126	Spring washer-4mm⌀
	7225941	Tone bracket
	8721408	Flat screw-3mm⌀×8mm (9 req'd) for slide volume mounting
	5760411	Pilot lamp
	7611922	Rubber bushing-6mm⌀
	7719301	Reflection plate

Symbol No.	Stock No.	Description
	8811231	Washer-2mm⌀ for column mounting
	6480351	Back plate (upper)
	6480361	Back plate (under)
	7515641	Column
	6341931	Gear
	6341921	Gear-20mm⌀
	6317871	Spring
	8711406	Pan head screw-3mm⌀×6mm
	8811114	Washer-3mm⌀ for gear-20mm⌀ mounting
		for Speaker box assembly
	6117914	Speaker box assembly
	5411071	Speaker-16cm (6½")
	5742811	Extension cord
	8811116	Washer-4mm⌀
	8821114	Nut-3mm⌀ (4 req'd) for speaker mounting
	6190511	Box cover
	8781412	Tapping screw-3mm⌀×12mm (16 req'd) for rear cover mounting
		for Printed circuit board assembly
	5516261	RF IF MPX P.C.B assembly
P103～105,208,209	5680621	Terminal
P201～203	5660401	3P plug
P301～304	5660411	4P plug
P101,102,206207305～309	0542109	Plug
	5516291	Tone P.C.B assembly
	5516281	AF power P.C.B assembly
	7229881	Radiation plate
	7777101	Tapping screw-3.5mm⌀×10mm
	8781438	Tapping screw-3mm⌀×8mm
	7627922	Operating instructions
	7829031	Carton box
	7831001	Cushion (left)
	7831005	Cushion (right)
	7831021	Cushion (A)
	7831081	S.P pad

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